

COMPUTER-INTEGRATED MANUFACTURING SYSTEMS

Index to Volume 2
Numbers 1-4
pages 1-256

1989

Author index

Acaccia, G M, Michelini, R C, Molfino, R M,
Stolfo, F and Tacchella, A 108
Ainsworth, K 221
Biermann, J see Co, H C 181
Bison, P and Gini, M 29
Booth, A H see Weston, R H 115
Bouchard, P and Stewart, N F 236
Bowen, J, O'Grady, P, Nuttle, H and Terribile, M 21
Browne, J see Morris, C J 214
Burbidge, J L, Falster, P and Riis, J O 148
Campbell, A and Warner, M 38
Chen, S K see Co, H C 181
Co, H C, Chen, S K and Biermann, J 181
Dean, Jr, J W see Susman, G I 133
DiLeva, A see Vernadat, F 69
Falster, P see Burbidge, J L 148
Fuchs, K 35
Geary, G M see Jackson, C 207
Gini, M see Bison, P 29
Giolito, P see Vernadat, F 69
Graves, G R, Sahay, A and Parks, C M 162
Hämmäinen, H, Eloranta, E, Saathoff and Skjellaug, B 196
Hammer, H 49
Harhalakis, G, Lin, C P and Mark, L 11
Harrison, D K, Petty, DJ and Leonard, R 228
Harrison, R see Weston, R H 115
Jackman, B see Morris, C J 214
Jackson, C, Mellor, JE and Geary, GM 207
Janicke, W 186
Kashyap, R L see Mohan, L 139
Leonard, R see Harrison, D K 228
Lin, C P see Harhalakis, G 11
Mark, L see Harhalakis, G 11
Mellor, J E see Jackson, C 207
Michelini, R C see Acaccia, G M 108
Mohan, L and Kashyap, R L 139
Molfino, R M see Acaccia, G M 108
Moore, P R see Weston, R H 115
Morris, C J, Jackman, B and Browne, J 214
Nuttle, H see Bowen, J 21
O'Grady, P see Bowen, J 21
Parks, C M see Graves, G R 162
Petty, D J see Harrison, D K 228
Pun, L see Roboam, M 82
Pun, L see Roboam, M 4
Riis, J O see Burbidge, J L 148
Roboam, M and Pun, L 4
Roboam, M, Zanettin, M and Pun, L 82

Saathoff, H see Hämmäinen, H 196
Sahay, A see Graves, G R 162
Schultz-Wild, R 240
Skjellaug, B see Hämmäinen, H 196
Smith, G W and Wang, M 99
Smith, P 224
Stewart, N F see Bouchard, P 236
Stolfo, F see Acaccia, G M 108
Sun, Q 172
Susman, G I and Dean, Jr, J W 133
Tacchella, A see Acaccia, G M 108
Terribile, M see Bowen, J 21
Vernadat, F, DiLeva, A and Giolito, P 69
Wang, M see Smith, G W 99
Warner, M see Campbell, A 38
Weston, R, Harrison, R, Booth, A H and Moore, P R 115
Zanettin, M see Roboam, M 82

Title index

A distributed interconnected control for computer-
integrated manufacturing 108
A functional approach to feature recognition in
production planning 162
A knowledge-based prototype of a factory level CIM
system 11
A new concept in machine control 115
An artificial intelligence approach to loading
workstation resources in a distributed job shop
controller 21
An object-oriented approach to robot programming 29
Application generator for the control of CNC
machines 214
Batching in flexible manufacturing systems 181
Conformance testing 221
Coordination of CAD/CAM information in robotic
applications 35
Criteria for assessing data transfer methods for CIM
systems in practical engineering situations 228
Expert simulation for online production control 172
GRAI-IDEF0-Merise (GIM): integrated methodology
to analyse and design manufacturing systems 82
Hierarchical CIM networking 207
Inductive sensor simulation in the modelling of CIM
systems 236
Integrated communication in CIM 196
Integration audit: a systematic method for studying a
manufacturing enterprise to determine the
possibilities for integration 148

Interface to a design knowledge base in a CIM environment that understands user design intentions	139	Knowledge-based systems	139
Modelling CIM systems Part III: an intelligent database environment for the design and implementation of a CIM information system	99	– interface to a design knowledge base	11
On the threshold of computer-integrated manufacturing: application trends of CIM technologies in West German industries	240	– prototype of CIM system	11
Optimal assignment of orders to parallel working subplants without splitting	186	Methodologies	
Organization and information system design of manufacturing environments: the new M* approach	69	– CAD/CAM data exchange	224
Strategic use of computer-integrated manufacturing in the emerging competitive environment	133	– design methodology for AMSs	4
Successful realization of CIM with bottom-up strategy	49	– for feature recognition	162
The advanced application of IGES project	224	– GRAI-IDEF0-Merise (GIM)	82
Training practices and product strategy in high technology enterprises	38	– M*	69
Utility of design methodology for advanced manufacturing systems	4	Modelling	
		– CIM systems	236
		– design of CIM information system	99
		Networking	
		– performance of data networks	207
		Production	
		– online production control	172
		– optimal assignment of orders	186
		– planning	162
		Robotics	
		– robot programming	29
		– sensor-aided robot welding system	35
		Shop controller	
		– based on AI techniques	21
		Simulation	
		– for online production control	172
		– inductive sensor simulation	236
		Standardization	
		– testing	221
		Strategy	
		– for competitive advantage using CIM	133
		Testing	
		– conformance testing	221
		Training	
		– in manufacturing	38
		Use of CIM	
		– survey results	240

Subject index

Advanced manufacturing systems	
– design methodology for	4
Application generator	
– for CNC machine control	214
Artificial intelligence	
– in a shop controller	21
Batching	
– in flexible manufacturing systems	181
CAD/CAM	
– coordination of information	35
– data exchange	224
Communications	
– integrated broadband	196
Control	
– approach to machine control	115
– CNC machines	214
– distributed interconnected control	108
Data transfer	
– methods for CIM systems	228
Design	
– conceptual interactive design within CIM	139
– of manufacturing environment	69
– of manufacturing systems	82
Flexible manufacturing systems	
– batching	181
– cells and islands	49
Integration	
– and linking	228
– development of framework	148
– of communication	228
– of CNC machines	214

Books reviewed

Caulkin, S and Ingersoll Engineers The new manufacturing: minimal IT for maximum profit	188
Hurriem, R D (Ed.) Simulation	58
Knox, C S Organizing data for CIM applications	59
Kusiak, A (Ed.) Artificial intelligence: implications for CIM	58
Mair, G M Industrial robots	249
Majchrzak, A The human side of factory automation	188
Schonberger, R J Japanese manufacturing techniques	250
Schonberger, R J World class manufacturing: the lessons of simplicity applied	250
Teicholz, E and Orr, J N (Eds) Computer integrated manufacturing handbook	124
Tom, P L Managing information as a corporate resource	124
Wright, P K and Bourne, D A Manufacturing intelligence	249

